Filed: August 22, 2003

Attorney Ref. 11958/60

## LISTING OF THE CLAIMS

This listing of claims contains no amendments and is being provided for the convenience of the Examiner:

## **Listing of Claims:**

1. (Previously Presented) A method for indexing data in a network based on unique identifiers, the method comprising:

establishing a unique location identifier for each of a plurality of data generating devices on the network, the unique location identifier for identifying a network location of each of the plurality of data generating devices in the network;

registering the unique location identifier of each of the plurality of data generating devices on at least one server connected to the network when each respective one of the data generating devices is first used on the network;

establishing a unique identifier for data generated by the plurality of data generating devices;

registering the unique identifier for data generated by the plurality of data generating devices on the at least one server, wherein registering the unique identifier further comprises the at least one server associating the unique identifier with a first unique location identifier of a data generating device;

the at least one server associating the unique identifier with a second unique location identifier of the data generating device in response to a change in a location of the data generating device;

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providing a plurality of servers in a tree structure, the at least one server included

in the tree structure;

receiving a query from a client machine at one of the servers, wherein the query

is for the data generated by the plurality of data generating devices and the query is

based on the unique identifier;

the one of the servers, in response to the guery received from the client machine,

querying at least one parent server of the one of the servers until the second unique

location identifier associated with the unique identifier is found, the at least one parent

server included in the servers;

transmitting the second unique location identifier to the client machine in

response to the guery received at the one of the servers; and

the data generating device transmitting data generated by the data generating

device to the client machine directly over a peer-to-peer connection established in

response to transmitting the second unique location identifier to the client machine.

2. (Cancelled)

3. (Previously Presented) The method of claim 1 further comprising storing the

unique identifier on a token.

4. (Previously Presented) The method of claim 3 further comprising using the token

for subsequent uses of any of the plurality of data generating devices.

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5. (Previously Presented) The method of claim 1 further comprising retrieving data

generated by one of the plurality of data generating devices by manipulating the unique

identifier associated with that data.

6. (Previously Presented) The method of claim 5, wherein the unique identifier is

transmitted to the at least one server.

Claims 7-12. (Cancelled)

13. (Previously Presented) A method for storing data based on a plurality of unique

identifiers and a plurality of unique location identifiers maintained in at least one server

in a network, the network including a plurality of data generating devices, the method

comprising:

registering the unique location identifiers on the at least one server when the

data generating devices are first used on the network, wherein each one of the unique

location identifiers identifies a location of a corresponding one of the data generating

devices on the network;

generating a unique data identifier at a respective one of the plurality of data

generating devices for data generated at the respective one of the plurality of data

generating devices when the data is created;

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the at least one server storing an association of the unique data identifier and the

unique location identifiers of each of the plurality of data generating devices that

generated the data identified by the unique data identifier;

the at least one server changing an association of a unique identifier and a first

unique location identifier of a data generating device to an association of the unique

identifier and a second unique location identifier of the data generating device in

response to changing a network location of the data generating device;

providing a plurality of servers in a tree structure, the at least one server included

in the servers;

receiving a guery from a client machine at one of the servers, wherein the guery

is for data generated by the data generating device and the query is based on the

unique identifier;

the one of the servers, in response to the query received from the client machine,

sending a request to at least one parent server of the one of the servers until the unique

identifier is found, the at least one parent server included in the servers;

transmitting the second unique location identifier to the client machine in

response to the guery received at the one of the servers; and

the data generating device transmitting data generated by the data generating

device to the client machine directly over a peer-to-peer connection created in response

to transmitting the second unique location identifier to the client machine.

14. (Previously Presented) The method of claim 13, wherein the plurality of data

generating devices comprise client entities.

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15. (Cancelled)

16. (Cancelled)

17. (Previously Presented) The method of claim 13, further comprising adding new

data to the network by creating a new association of another unique data identifier to a

unique location identifier of an appropriate one of the plurality of data generating

devices.

18. (Previously Presented) The method of claim 13, further comprising removing

data from the network by deleting the association of the unique data identifier and the

second unique location identifier.

19. (Previously Presented) The method of claim 13, further comprising updating data

in the network by modifying an association of the unique data identifier and the second

unique location identifier.

20. (Previously Presented) A computer readable medium containing computer

executable code for indexing data in a network based on unique identifiers, the

computer executable code comprising instructions for:

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receiving a unique identifier generated by a data generating devices in response to the data generating device first generating data on the network;

registering the unique identifier for the data generated by the data generating device, wherein registering the unique identifier further comprises associating the unique identifier with a unique location identifier, and the unique location identifier identifies a location of the data generating device in the network;

associating the unique identifier with a second unique location identifier of the data generating device in response to changing the location of the data generating device;

one of a plurality of servers receiving a query from a client machine, wherein the query is for the data generated by the data generating device;

the one of the servers querying, in response to the query received from the client machine, at least one parent server of the one of the servers to find the second unique location identifier, the at least one parent server included in the servers, and the servers arranged in a tree structure;

transmitting the second unique location identifier to the client machine after receiving a response to the query sent to the at least one parent server; and

transmitting the data generated by the data generating device from the data generating device to the client machine over a connection created between the data generation device and the client machine after transmitting the second unique location identifier to the client machine.

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21. (Previously Presented) The computer readable medium of claim 20, further comprising instructions for automatically detecting and integrating spontaneously added data generating devices at the at least one server.